



Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

HISTORICAL NOTES
JACK L. REVEAL

THE MISSING FRÉMONT CANNON—AN
ECOLOGICAL SOLUTION?

JACK L. REVEAL AND JAMES L. REVEAL

Made in United States of America
Reprinted from MADROÑO
Vol. 32, No. 2, April 1985

3843 Ingraham Street, Apt. F-309
San Diego, California 92109
January 15, 1978

I am a licensed Forester in the State of California with extensive experience in vegetation surveys, archaeological reconnaissance, classifying, documenting, mapping and related research techniques. My services are available on a consultant basis, and I am available to collect the field information you need to prepare E.I.R.'s and other reports for clients.

A resume outlining my professional experience, education and special skills is enclosed for your review.

I would be happy to meet with you at an early date in order to discuss your particular requirements and how I may be of service to you and your clients. My telephone number is (714) 272-9105 or (714) 232-3821.

Sincerely,

Jack L. Reveal

Enclosure

SUMMARY OF SERVICE WITH THE USDA/USDI (1938 - 1974)

1938 - 1939: RANGE CONSERVATIONIST in Elko County, Nevada, Grazing Service and at the University of Nevada, Reno. Range surveys and data compilation.

1939 - 1941: FARM FORESTER. Forest and woodlands surveys and management plans for public and private lands in Nevada.

1941 - 1946: FARM FORESTER. Farm forestry, generation of forest products for wartime production, soil conservation techniques in the Redwood Coast of California.

1947 - 1948: ASSISTANT FOREST RANGER. Timber sales, fire protection, general management of national forest lands, Shasta National Forest, Sacramento District.

1948 - 1967: DISTRICT FOREST RANGER. National forest protection and management of two Ranger Districts, each approximately 200,000 acres, including timber sales, livestock grazing, wildlife habitat management, recreation, special land use, construction and maintenance of improvements, minerals management, fire protection, land use plans, insect and disease control, public information and education, archaeological and historical site inventories.

1967 - 1974: FOREST STAFF OFFICER. Supervision of Resources Department, Cleveland National Forest, with emphasis on timber, grazing, wildlife, minerals, insect and disease control, multiple use plans, soils and hydrology.

SUMMARY OF OTHER EMPLOYMENT (1975 - Present)

CONSULTANT: Designed and wrote text for self-guided plant walks for Vacation Village Hotel, San Diego, California; conducted field investigation and report re: autecology and status of Cuyamaca cypress in the Cleveland National Forest.

ASSISTANT TO THE CURATOR OF THE HERBARIUM, Natural History Museum, San Diego, California. Plant collection and indexing; collected and catalogued 300 grass specimens in areas west of the Rocky Mountains. (Volunteer, approximately 20 to 30 hours per week)

EDUCATION

1937: B.A., Forestry, Utah State University at Logan

1938: Completed one quarter of post graduate work in Range Management and related subjects, Utah State University.

PERSONAL DATA

Birthdate: May 7, 1912 Height: Six feet, 1½ inches Weight: 175 pounds

Health: Excellent, latest physical examination completed January 31, 1978

Marital Status: Divorced, no dependents

REFERENCES

Personal and professional references available upon request.

JACK L. REVEAL
3843 Ingraham Street, Apt. F-309
San Diego, California 92109

Telephone: 714-272-9105 (home)
714-232-3821 (office)

SUMMARY OF PROFESSIONAL SKILLS & ACCOMPLISHMENTS

Vegetation Surveys:

- ...Investigated species composition, including occurrence of rare, threatened and special interest plants.
- ...Determined and documented plant density and volume.
- ...Prepared maps of vegetation types and plant communities, using aerial photos and topographic maps.
- ...Conducted ecological studies and wrote reports concerning plant species, including management recommendations.

Archaeology Surveys:

- ...Conducted broad reconnaissance surveys to locate sites and cultural remains.
- ...Prepared site reports for museums, State of California, Forest Service and for individual archaeologists.

Forest Ecology:

- ...Investigated forest conditions affecting management; determined and instituted programs for efficient management.
- ...Estimated volume of standing forest and woodland trees and recommended efficient management procedures.
- ...Wrote and conducted information and education programs for the care and protection of forests.

Range Conservation:

- ...Evaluated range problems and recommended means of providing sustained production of forage for livestock and wildlife.
- ...Planned and directed construction and maintenance of range improvements, such as water developments, fences and soil-erosion measures.
- ...Developed and instituted improved plans for reseeding.
- ...Studied plants and growth requirements to determine varieties best suited to particular areas.

Special Awards:

- ...Special Merit Award, USDA, for: (1) improvement to fire prevention program, and (2) designing and writing text for a self-guided nature trail, the first of its kind in a National Forest in California. (1957)
- ...Special Service Award, USDA, for contributions to the information and education of a group of internationally recognized scientists. (1966)
- ...Certificate of Merit, USDA, for contributions to Forest Service archaeology needs and concerns. (1971)
- ...Letter of Commendation from the Society for California Archaeology for the preservation of endangered sites in and around Inyo National Forest. (1971)
- ...Letter of Commendation from San Bernardino County Museum for assisting the museum's Research Center; for preparations for the Quarternary Sciences Tours; for assistance during a major conference in the Calico Mountains Archaeological Project; and for mapping and recording sites in the Mono Basin area. (1971)
- ...Letter of Commendation from Southwest Museum, Bishop, California for a Surface Survey in the greater Lee Vining area. (1971)
- ...Certificate of Merit, USDA, for outstanding accomplishments in brushland management in the Cleveland National Forest. (1974)

continued on next page.....

6983 Camino Pacheco
San Diego CA 92111
October, 1980

The time has come to bring everyone up to date on happenings, and, in particular, to send you a new mailing address. For we have moved from the Oakwood apartment to a place of our own, a townhouse near the mesa rim overlooking Mission Valley. This is the first time I ever owned a share in anything larger than a Ford stationwagon or an old horse and I find it a little frightening. But it is good to have a place of one's own, with space for all my gear, a desk, bookcases and a wall for pictures.

About a year ago I went to work for an environmental firm to help out awhile. Today, I'm still there, helping out awhile. Mostly, I do field botany and write parts of technical reports. I enjoy the work and the dozen or so young people with whom I associate. In addition, I'm becoming a better botanist. Valeria is fine. She still works at the bank only five minutes drive from here. Water skiing in the summer and snow skiing in the winter keep her into activities with her family. Now she's into sewing, and with this house to look after, she'll never lack for something to do.

This summer, on leave, sort of, I once again went to the Bridgeport Ranger District to carry out a contract to install some range trend study plots. This time I worked alone which about doubles the field time. But it went well because I could poke along at my snail's pace through some forty days of field time. The Forest Service made it easier by taking me to and from the more remote places by helicopter. It was a temptation to do those plots free just to get the rides. I finished the taxonomy at the herbarium, and with Valeria's help mounting plants and several hundred 5 x 7 photographs, wound up the work in early September and went back with the environmental firm.

You may recall that when I retired I began working as a volunteer for Reid Moran at the Natural History Museum herbarium. Though I have had to set that aside for the time being, the museum is still my professional home. I miss the work and the people there. I'll be glad to go back when the time comes.

Jim is still at the University of Maryland, very busy as always as one of the top people in plant taxonomy. His wife, Rose Broome, also a taxonomist, is with the USDA. They have Jim's son Darin with them and they, too, have a new home in Laurel. Daughter Kimberly is now a young mother, married and living in Provo--which not only makes Jim a grandfather, but me a great-grandfather. (I am not quite used to the role.) Caroline Reveal now lives in Sacramento with her new husband. Mark is with them. He has a job and is going to junior college.

Jon and Marie-Chantel are now in France awaiting the birth of their first child. They are very happy about the baby, and so is everyone. The truth is, I can hardly wait for the news. They will be such good parents... Jon is still Director of Skiing for Keystone Corp., managing Arapaho Basin and doing other work as well. They live at Arapaho, but have bought two houses in Dillon and are doing quite well in all respects.

Arlene is still in Bridgeport as County Librarian. I understand that she is always and endlessly busy with her work and other interests. Jim and Jon both say they have a difficult time of it reaching her at home for an occasional telephone conversation.

After five vacations in Hawaii, we went this year to Yucatan, with enough time in Mexico City to skim the Museum of Anthropology. I almost wish I hadn't gone, for Mexico is a Pandora's Box of fascinating things for which I will never have time. So I guess we'll go back to Hawaii next spring for a short vacation. It's a good place to rejuvenate old bones and old heads.

I have promised Jon and MC, and myself, that I'd go to France with them next fall. I'm looking forward to seeing MC's home and places where Jon once taught skiing and made film with Warren Miller. Then someday we want to see New England in the fall. And on yet another someday, I'd like to go back to Idaho at least one more time. After all these years I still feel at home there.

Xmas Letter 1981

6983 Camino Pacheco
San Diego, CA, 92111
17 December, 1981

Time once again to say hello and send good wishes to old friends, new friends and family.

The year has gone quickly, but has brought little change. I worked for the environmental consulting firm until summer, then went to Bridgeport to begin another contract to install range trend study plots on the Toiyabe National Forest. By the time the studies were finished, the consulting work began to suffer the affects of building recession, so by this fall I was back working in the herbarium of the natural history museum. And that's where I am now, although still on-call with the firm. Perhaps it is the best of both worlds.

In May, Valeria and I went to Hawaii (Hilo - Kona) for two weeks, and at long last I got to visit the place where David Douglas (Douglas of the fir) met a tragic death in the hinterlands of Mauna Kea. When we returned, Jon, Marie-Chantal and son Stephan (now nearly 14 months old) spent two weekends with us. Then in September we took a ten-day journey to Brightman, Sonora, San Jose, San Francisco, Santa Rosa, Duncan Mills, Annapolis, Fort Bragg, Willits, Sacramento, Reno and home. In Sacramento, we spent an evening with grandsons Mark and Darin. Another highpoint of the year was a weekend in Yerington, Nevada where eight of us old-timers who worked for the Soil Conservation Service in western Nevada in 1939-40 and -41 got together for a reunion. We had a grand time.

Arlene is still the Mono County librarian and going strong I hear; Jim is now a full professor of botany at the University of Maryland (totally submerged in his work); and Jon is still running Arapaho Basin and doing other things for Keystone Corp. at Dillon, Colorado; Marie-Chantal is teaching skiing. Grandson Stephan is walking now, doing beautifully. A French girl looks after him during the day.

I have more range trend plots to do for the Toiyabe next summer (April, May and June) and they will be my last. We will likely go Kauai for a vacation next year--then it will be back to the herbarium for me plus what might come along in consulting work. Next fall, I hope to go to France with Jon and family on their annual visit with Marie-Chantal's family. And finally-- Jon called this morning and I have never heard him so excited: he has been selected to be a member of the four-man support team for a Mount Everest assent in the summer of 1983, via China. So dreams do come true....

San Diego - December, 1982

Another Holiday season and time once again to send good wishes and relate a few events of the past year.

With times as they are, I've worked but little in the past 12 months. I did get a few field botany assignments from a local environmental firm, however, and I spent a couple of months completing a range contract with the Toiyabe National Forest. The rest of the time I've been at the herbarium at the Natural History Museum.

In April, Valeria, her three daughters and I, spent 10 days on Kauai doing the things people do in Hawaii. Valeria still works at the bank, water- and snow skis with her family. Lately she's been sewing for daughters and grand daughters, an activity that sometimes frustrates her to no end.

This year I have put my photo collection into proper order, and have worked on our family history to supplement, in a small way, the valued work of a relative, Mary Shannon, of Colorado.

Son Jim is still with the University of Maryland botany department; son Jon continues at Keystone as manager of Arapaho Basin ski area in the Rockies west of Denver. Jim's wife, Rose Broome, is back into botany, finishing work under a grant begun several years ago. Jon's Marie-Chantal is wife-mother-ski instructor all at the same time, so she is a very busy person. Jon expects to be a member of the Mount Everest expedition early next spring and is training hard for that great adventure.

Grandson Mark is now 21 and married to a girl named Donna who I have not met. He is working to become a managing chef in a restaurant. Grandson Darin, 18, is with his mother Caroline and stepfather Don McCaffrey. He is a drummer in a rock band. All live in Sacramento. Grand-daughter Kimberly remains in Provo with her two children. Grandson Stephan--Jon and Marie-Chantal's son--is now 2, going strong and a joy to be with. Their Grandmother Arlene continues in Bridgeport as Mono County Librarian. Jim phoned her recently and caught her just as she was hurrying off somewhere.

It was my good fortune, this fall, to spend 3 weeks in Europe with Jon, Marie-Chantal and Stephan, and 5 days in Maryland/Washington DC with Jim and Rose. It was an overwhelming experience. I came home grateful that I could be with them awhile for a glimpse of their fascinating worlds that are so different from my own.

In September, my friend and co-worker, Reid Moran, curator of the herbarium, retired and left the Museum to make his home with friends on a farm near Montgomery Creek, California. I am among the many who will miss him. All wish him well.

May 1983 be a great year for everyone....

Sent w/ Christmas Cards
1983

6983 Camino Pacheco
San Diego, CA 92111
19 December, 1983

This has been an active year. For the first time since 1975 I have spent little time at the Herbarium of the Natural History Museum. Instead, I have worked for an environmental firm doing contract vegetation surveys and plant inventories in southwestern San Diego County. Needless to say, there have been some interesting assignments to carry out. The work experience I had in the Forest Service is once again rewarding.

Jon returned safely and much wiser from the adventure on the Tibetan slopes of Mount Everest. (The American Everest 83 Expedition.) The final ascent party did not reach the summit because of two weeks of severe storms just before the monsoon season. But all returned--somewhat of a record in itself. Jon made several carries to the camp at 22,000 feet without oxygen, but found that to be his limit.

In May all the "family" spent a week in Cancun. Valeria's daughter Wanda and I rented a VW bug and spent four days visiting Mayan ruins and small villages along the way. Later, in mid-October, Valeria and I had two weeks in the New England states, traveling through the lovely country-side on the back-roads of Maine, New Hampshire, Vermont and Massachusetts. We took the Amtrack on to Philadelphia for a couple of days there, then on to Washington, D. C. to visit the Smithsonian museums and galleries and do the other things that tourists do in the Capitol. And we visited Jim and Rose at their new country home in eastern Maryland. They took us to see old homes and cemeteries, tobacco barns, fields, woodlands and coastal villages. It was a wonderful vacation; maybe our best. Thus we discovered that New England is indeed fascinating and beautiful. Without effort one seems to become a part of it. Like going home to a place you'd never been.

It was also my good fortune to spend several days in Colorado with Jon, Marie Chantal and son Stephan--now 3 years old and very bright and active. Stephan and his mother had just returned from two months at her home in Lyon. It was astonishing to hear him use french with his mother and english with his father who he calls Jon. (I'm grandpere.)

It was not my lot this summer to make the much-looked-forward-to trip to Idaho, Wyoming and Montana. But it is still keenly anticipated and still to be done. The time will come.

So, then, this has been a good year. I hope that fate and fortune will allow the same to be said for 1984.

May this find you well and prospering.

6983 Camino Pacheco
San Diego, CA. 92111
16 December, 1984

Again it's time to wish you a Merry Christmas and a Happy New Year, and to tell you briefly about what has transpired over the past twelve months.

I continue doing vegetation surveys - from time to time - for a local environmental firm. I enjoy the work very much and it helps me stay active of mind and body. Old guys like me need to do things we can do well and take pride in the doing. And it's also good to have a little extra change to jingle in your pocket.

For the Stanislaus National Forest last spring, I wrote a "history" of our tenure on the Summit District (1948 - 1960). Jim added about 50 pages of his recollections as a youth, and some friends came forth with certain details. Jim and I have also written a paper on a favorite western history subject. We expect to see it published sometime next year.

Valeria and I took three (!) trips in 1984: a week in Maui; another in Minnesota and Canada; and a short week at Grand Canyon and vicinity. In Minnesota, we went first to Detroit Lakes where she lived before moving to California at age 16. I'd never been to Minnesota, and I loved its lakes and forests, its green fields and immaculate farms, its friendly people and quiet villages. We saw Lake Itasca and the headwaters of the Mississippi, then made our way to Winnipeg and around north of Lake of the Woods, then east through Ontario to Thunder Bay. There we visited Old Fort Williams - the most outstanding historical exhibit I ever saw.

In mid-July, I set out alone in my old Fiat, with maps, a few books, camera, plant press, and my light camp gear, on a month's long journey to visit family, a few friends, and a number of historical places related to the American fur trade and the Lewis and Clark Expedition. I spent three days in Colorado with Jon and family [he's now ski area manager at Aspen's Snowmass], and three days with sister Dorothy in Seattle. The rest of the time - except for a couple of days with old friends around Squirrel - I traveled to historical places, or along historical trails, in Wyoming, Idaho, Montana, Washington and Oregon. At long last, I got to see some of the scenes, some of the places, about which I've been reading for so many years. Highlights of the journey are too numerous to mention, but several of the people who receive this letter will know some of the highlights because they helped make them possible.

I hope this finds you well and prosperous in every way; and I further hope that my good luck holds out so I can write a Christmas letter again next year.

1985

TO WISH YOU A
MERRY CHRISTMAS and a HAPPY NEW YEAR

Nineteen eighty-five got off to a fine start with the birth of a fifth grandchild: Michael Raymond Reveal, born to Jon and Marie-Chantal in Aspen, Colorado, on the 4th of January. Then, twenty-two days later in Whittier, California, a fourth great-grandchild was born to Mark Reveal and Wendy Arrenton. They named the girl Halley, for the comet, the very one which frightened my grandmother Reese half out of her wits, in Kansas, in 1910.

Early in the year I bought a small IBM word processor to make writing vegetation survey reports a bit easier. (That sounds like a reasonable excuse, doesn't it?) Besides reports, I used it to write (finally!) a Reveal family history, divided into three sections: one for my dad, one for my mom, and a third for Uncle Allie Burkhalter. They were distributed in mid-summer. Another bit of writing by Jim and me resulted in a historical article about Fremont's lost cannon. It was published in the April issue of Madrono.

Our only vacation this year was a pleasant April week in Maui with Valeria's sister Louise, her daughter Toni and husband Bruce. Then, in May and early June, Jon and Marie-Chantal and the two children came to California for a business meeting at Disneyland and to visit me here in San Diego. It was nice to spend some time with them and get to know the grandchildren, at least a little bit, and have them know their grandpa Jack. (Something I missed, for both of my grandfathers died before I was born.)

Valeria underwent a couple of surgeries this summer to repair various parts of herself damaged by lifting motors, pulling anchors and similar heavy work over the seventeen years she spent at June Lake Marina. She is now almost as good as new and is back to work in the bank. My sister Dorothy, likewise, spent time in the hospital this summer after damaging her back in a fall. She is mending well at her home in Seattle.

Son Jim and Joanne DeEds Hankins have co-authored a novel based upon their young, tender growing-up years with horses and mountains on the old Summit Ranger District. I found it a delightful story and I hope that it will someday be published.

Professional work has been patchy this past year but I am grateful for what has come my way. I still go the Natural History Museum from time to time as botanical work and other needs require.

An interest in western history has set me to drawing maps (transparencies) of Idaho, Wyoming and Montana on which I can plot the location of old trading posts, military forts, fur rendezvouses, trails, travel routes, roads and other historical information. This project was born of not finding good location maps in the literature. What might come of this project remains to be seen.

Once again I look forward to hearing from you over the holidays, and as always I hope this finds you well and prospering.

6983 Camino Pacheco, San Diego, California 92111

6983 Camino Pacheco, San Diego, California 92111. 15 December, 1986

This has been another good year and a quiet one. I read or hear about my peers having just finished a leisurely 3 month's cruise through the Sea of Cortez or of having spent an exciting month skin-diving at Point Borrow, and I think "gee, what am I doing here drawing a dumb old vegetation map or writing notes about Great-uncle George Reese watching the Chief Joseph's angry young men set fire to the Henderson ranch house on the Yellowstone?" Well, the answer is: I like it.

So I continue to do vegetation surveys now and then for RBR & Associates. I enjoy the work and the bright people it lets me associate with, even though I am old enough to be the grandfather of most of them. In addition, I did some survey work on the vernal pools at Camp Pendleton for RECON, and I collected batches Iceplant, Pickleweed and Saltbush for son Jim for use in some kind of research at the University of Maryland.

And I continue to work on family history here at home and at the L.-D. S. genealogy library a few miles away, the results of which are shared with other family members. In the past year I have been in touch with my niece, Darlene Reveal Park, of St. Paul. She has furnished some valuable family history including many old family photographs, which I have copied, and a binder containing 492 pages (!!) of material on her husband's family and our own.

Some of my effort this summer went into the preparation of a booklet of interesting letters that Jon wrote to Arlene and me between 1963 and 1972. Those were his growing-up years, his college years, the years he was a ski instructor in France and New Zealand, when he roamed the world and finally returned to America with Marie-Chantal Bresard who became his wife.

We took no vacation trips this summer, but I went to Aspen to visit Jon and family, once in May and again in August/September after Marie-Chantal, Stephan and Michael returned from their annual pilgrimage to her family home near Lyon. I also spent parts of two pleasant days at Estes Park with Mary Shannon and her husband, Bob. She is a second-cousin who devotes much time to the history of my mother's people.

My long-standing interest in western history led me to prepare maps and a text locating and briefly describing the fur posts, trading posts and military posts of Idaho, Wyoming and Montana between 1810 and 1900. I finished the booklet in January of this year, but since then I have discovered so many omissions and errors that it must be re-done if I can turn myself back to it.

Valeria's middle daughter, Sandy, and her husband Ted, have completed their beautiful new home (a mansion, really, complete with a tennis court and a large pool) in Chatsworth at the base of the foothills on the northern rim of San Fernando Valley. Our home here in San Diego is on the market and when it is sold we will move into our very own quarters which they have prepared for us in the upstairs of the new home. Like here, I will have a room for my books and toys and a place to work. There is a big stables up the road a block or so, and Northridge State College is nearby. I shall be fine and Valeria will be able to retire at the bank and be close to her children so they can do all the things mothers and daughters like to do together.

I have lived here longer than any other place - nearly 20 years! I will leave a lot behind, but it is time to move on to other things. Meanwhile, Jim is still a Professor of Botany at the University of Maryland; Jon is still Ski Area Manager for Snowmass at Aspen; and Arlene is still the County Librarian at Bridgeport. Sister Dorothy and her family in Seattle are also well. We are among those who have much to be thankful for this holiday season.

So once again I can wish you a very Merry Christmas and Happy New Year.

6983 Camino Pacheco
San Diego, California
4 February, 1987

Dear Friend:

The 1986 USU Alumni Directory lists some of the people who were my friends or acquaintances in my younger days. It was good to see their names after such a long time and I began thinking of them, wondering what they had been doing these last 50 years and what they were doing now in the worlds they have made for themselves. So I decided to write and ask, and while I was doing that I'd tell them a little about myself. Thus the following is addressed to all of you.

By the time I graduated in 1937, I had worked two seasons on a road survey party in the mountains north of Ashton, Idaho, and two seasons as a forest guard for Ranger Lorán Wellman in the Middle Fork of the Salmon, Thunder Mountain District, Payette National Forest. In '37, I went back to the Payette as headquarters guard for Ranger John Parker at Landmark, but spent the last part of the summer on the Middle Fork, and the fall in Boise on a fuel hazard mapping project.

After another quarter of school, I went to Nevada to work on the Elko County Range Survey for the old U. S. Grazing Service under Bryant Martineau. I was a member of a seven-man-plus-a-cook party led by Howard Passey. On the same party were Fred Harris '38, and Emery Snyder '38. Art Holmgren '38, served our party and three others as botanist. It was a horseback operation and a good one where all of us learned a great deal.

In the fall of 1938, Martineau sent me to Reno to help Mark Shipley '37? with the compilation of the summer's field work. The following June I got the much-needed break: a Junior Forester appointment with the SCS at Yerington, Nevada.

I worked for SCS in Nevada, a lot of the time on Indian Reservation and Public Domain woodland surveys. Then, in the fall of 1941, quite against my wishes, I was sent to the Redwood Region where I worked for SCS, and later the Forest Service, on private forestry activities related to the war effort. In the spring of 1947 I was sent to the Shasta as assistant ranger on the Sacramento District under the one-and-only Pike Boehm. Then, the following spring (1948), the family and I moved to the Stanislaus as District Ranger on the Summit District, Pinecrest, California, and twelve years later (1960) we moved again, this time to the Inyo as ranger on the Mono Lake District at Lee Vining.

While we were living at Pinecrest, it finally dawned on me (and none too soon) that I was a card-carrying, world-class

alcoholic. I gave up drinking on 15 May, 1954, and haven't had a drink since.

On the Inyo, I got deep into plant taxonomy and began a District herbarium second to none. Archaeology, always an interest, also flowered and lasting friendships developed with archaeologists working along the eastern Sierra.

In 1967, I transferred to the Cleveland N. F. where Stan Stevenson, was Supervisor. I was the Cleveland's first Resources Officer and found many challenges because it was a new environment for me and there was much to learn.

After retirement at the end of 1974, I went to work almost full time as a volunteer in the Botany Department of the San Diego Natural History Museum where a friend, Dr. Reid Moran, was Curator of the Herbarium. I learned a lot and met many interesting people, but after several years I got into activities that led me to become a "consulting botanist". Over parts of four summers (1978-81), I installed permanent range trend transects for the Bridgeport District of the Toiyabe National Forest, and from 1980 to the present, I have done numerous vegetation surveys and plant inventories for an environmental firm (or firms) here in San Diego.

Hobbies? I would have to name western American history (chiefly exploration and the fur trade) and, lately, research into family history. And of course botany.

Arlene Hadfield and I met in the USAC library during the Easter week of 1937 - and fell in love. She had grown up at Riverside, Utah, on the Bear River, where her folks were farmers and stock raisers. Along with Max Peterson she was Valedictorian of the Class of 1938, and after graduation became a social case worker in Box Elder County. On Thanksgiving Day, 1938, we were married at Mark Shipley's home in Reno. We stayed together for 30 years and raised two sons: James L. (Jim), d.o.b. 1941, and Jon A., d.o.b. 1944, of whom we are very proud.

Our two boys grew up in the mountains which might explain their life pursuits: Jim, botany; Jon, winter sports. Jim studied plant taxonomy at USU under Art Holmgren and later (1969) got a Ph.D. at Brigham Young University. He is now a professor of botany at the University of Maryland and is well known in his profession. His main interest has been the flora of the Great Basin. With Art Holmgren and others, he co-authored the multi-volume Intermountain Flora. Jim has two sons, a daughter, and four grandchildren living in California and Utah. His second wife is Rose Broome, also a botanist.

After two years at USU, Jon moved to UC Davis for a degree in biology in 1968 but found he couldn't break with his love for

skiing and adventure. Over the last 19 years he has taught skiing in France and New Zealand, has been in numerous Warren Miller ski films, has traveled the world, and was a member of the Everest 83 Expedition. In America, he has worked at a wide variety of assignments at Dodge Ridge and Bear Valley ski areas in California, and at Keystone and Arapaho Basin ski areas in Colorado. Presently he is Ski Area Manager of the Snowmass Ski Area, Aspen. In France, he met and married Marie-Chantal Bresard, also a skier. They have two young sons in whom they take well-deserved pride.

After our breakup nearly twenty years ago [has it been that long!] Arlene went back to college for a degree in Library Science. For some 15 years she has been Librarian of the Mono County Library at Bridgeport, California, a pleasant little County Seat town on the eastern slope of the Sierra Nevada where she is well-known and held in great respect.

Since 1970, my friend-companion-wife, Valeria, besides keeping house and looking after things generally, works as a teller in a local bank. Our modest vacations have been to such places as Cancun, the Hawaiian Islands, the Northwest and New England. In addition, I have made several camping trips to Idaho, Wyoming and Montana. We have a comfortable home above the San Diego River valley a few miles inland from the Pacific. I have become member of her large family who lives in the San Fernando Valley where we expect to move sometime in the future.

So that is what I have to tell you about myself. If you are moved to do so, please let me hear from you if only a few lines. Tell me about yourself, your family, work, interests and your adventures.

Meantime, take care and live the best life you can.

Sincerely,

Jack L. Reveal

Copies to:

Theron Genaux, Salt Lake City; Art Holmgren, Logan; Ralph Gierisch, Burley; Scott Passey, Provo; Dale Strong, Ogden; Bill Hayes, Boise; Perry Gooch, Mesa, Arizona; Arthur Holt, Colorado Springs; Fred & Helen Harris, Elko; Emery Snyder, Bethesda, Maryland; Paul Grossenbach, Ashton; Vaughn Harshbarger Tippetts, Lovell, Wyoming; Max & Villa Mallory Peterson, Bozeman, Montana; Harold Johnson, Orem, Utah.

July, 1987

After a little over 20 years in San Diego - the longest I ever lived in one place - I have moved. My new address is:

11419 Tampa Avenue #128
Northridge, California 91326-1734
Telephone (818) 368-3297

Leaving familiar scenes, friends and activities has been a traumatic experience, but I expect to be as contented here as I was in San Diego. I believe I can find things to do in botany at one of the nearby colleges and I will continue work on family history at the L.-D. S. library in West Los Angeles.

Valeria's three daughters live near us, so she will find lots to do and we will have family about for a change.

Our new home is very nice, quiet and private. A condo, of course, but without feeling like one. We are at the extreme north end of the San Fernando Valley, quite far from the City-proper, on the edge of Limekiln Canyon (where there are hiking and riding trails) and at the foot of the chaparral and grass-covered Northridge Hills (where "the wind blows a lot"). Cowboy movies were made nearby in the silent-film days, and the setting for the MASH series is not far distant.

I trust this finds you well and propering in every way. I'll look forward to hearing from you one of these days.

11419 Tampa Ave.
Northridge, CA. 91326
January 5, 1988

To one and all a belated Merry Christmas and a Happy New Year.

About the time I should have been sending out this annual greeting, I was in Holy Cross Hospital here in Northridge. A little twinge of pain that appeared in my left hip proved to be bone cancer. I was in the hospital three weeks. Valeria and her family were with me constantly. Son Jon flew out from Aspen a couple of weeks ago for a Saturday and Sunday. It was such a wonderful surprise. Son Jim and my sister Dorothy and Jon will be back the middle of this month for a short visit and I am anxious to see them.

I am home now and doing pretty well most of the time. I want for nothing that it is possible to have. I am taking 20 treatments of radiation to control the cancer and relieve the pain.

I had a good year otherwise. I spent several days with Jon and family in late August. Son Jim and Rose were here on a research project and Jim returned later to complete the work and stay with me a couple of days. It was so nice to have the chance to visit.

My family history project is on hold which I hope to get back to shortly.

I believe I end all Christmas letters on a note of optimism and this one need be no exception. I hope, the good lord willing, that I will be writing all of you again next year.

I hope this finds you all well and happy.

11419 Tampa Ave #128
Northridge, Ca 91326
April 8, 1988

Dear one and all,

Home at last from the hospital after 17 days and 10 additional radiation treatments. That is a total of 45 now and that makes me very weak physically. I must say I have much less pain. I can walk with my walker but not very far, so far just around the house a few moments at a time. I have no idea how long I will go on this way. Valeria still looks after me all the time and her family visits very often.

I get many letters from you, too numerous to mention and greatly appreciated. Your letters are full of news and always good thoughts. I wish I could have replied at once to each but couldn't.

I talk to Jim and Jon by phone now and then also my sister Dorothy. All are well and busy.

Valeria will type this for me and get it xeroxed. Otherwise you might not be able to read my writing. (Please excuse my typing errors as I'm just beginning to learn how to use Jack's IBM)

I take a number of medicines, rest a great deal, "exercise" by walking around the house with my 4 legged walker. Valeria keeps her eye on me the entire time so I don't do something dumb and hurt myself.

Write when you feel like it.

I hope this finds everyone okay and doing well.

Oh yes, Jon will visit April 30 and May 1. Jim will be here May 16.

As ever, your friend,

Jack

May 26, 1988

Dear Friends:

This is to let you know that our dear Jack passed away on May 25th. He was surrounded by love and affection until the time of his death.

It is with the following lines from Theodora Kroeber's "Poem For The Living" that Jack asked to be remembered:

Think of me now and then
As I was in life
At some moment which is pleasant to recall.
Leave me in peace
As I shall leave you, too, in peace.
While you live,
Let your thoughts be with the living.

Jack will be missed a lot but never forgotten.

Thank you for being his friends.

Regards,

Valeria Watson Bernal

HADFIELD, JOSEPH (son of George Hadfield and Alice Hazelrim, of Hazel Grove, Eng.). Born March 3, 1827, Hazel Grove. Came to Utah Oct. 1, 1854, Daniel Garn company.

Married Jane Walker Redfern Dec. 25, 1853, in England (daughter of Joseph Redfern and Janett Walker, pioneers Oct. 1, 1854, Daniel Garn company). She was born Jan. 12, 1821. Their children: Joseph, Jr. b. Oct. 24, 1854, m. Laura Mary Jane Oliver; George Samuel b. June 26, 1856, m. Laura Smith; Janett Alice b. April 5, 1858, m. James Henry Steed; Mary Elizabeth b. Dec. 8, 1859, d. Oct. 14, 1860; Jane Ann b. Nov. 2, 1862, m. William A. Hess.

Member 56th quorum seventies; high priest; acting teacher. Pioneer silk weaver; brick-maker. Died Jan. 16, 1894, at Portage, Utah.

HADFIELD, JOSEPH, JR. (son of Joseph Hadfield and Jane Walker Redfern). Born Oct. 24, 1854, Salt Lake City.

Married Mary Jane Oliver Aug. 26, 1877, at Farmington, Utah (daughter of Francis Oliver and Elizabeth Bailey of Brown Candover, Eng., pioneers Sept. 25, 1866, John Holliday company). She was born Jan. 30, 1859. Their children: Joseph Francis b. May 20, 1878, d. Sept. 4, 1879;

Arlene's great grandfather

Arlene's grandfather

906

PIONEERS AND PROM

George S. b. June 21, 1880, m. Mary I. Smith; Elizabeth J. b. Oct. 1, 1881, m. Delbert Bowers; Janett E. b. July 1, 1883, m. Ebenezer Lefler; Alice A. b. Feb. 14, 1885, m. Fredric W. Buxton; Mary L. b. June 26, 1887, d. Sept. 2, 1888; Job O. b. Nov. 18, 1888; William E. b. March 13, 1890, d. Aug. 10, 1891; John H. b. March 2, 1892, m. Louisa Hancock; Ida May b. Jan. 6, 1894; Hazel b. March 29, 1896; Myron Ralph b. Dec. 2, 1901. Family home Riverside, Utah.
Member 74th quorum seventies; Sunday school superintendent 25 years. Constable ten years; statistical recorder. Farmer.

← Job (1891)
Arlene's father

HADFIELD, JOSEPH (son of Samuel Hadfield and Mary Ann Godby, of Manchester, Eng.). Born April 13, 1832, in Manchester. Came to Utah Oct. 11, 1856, Jacob Croft company.

Married Jeanette Goudie Dec. 25, 1857, Pine Valley, Utah (daughter of James Goudie and Isabelle Tenuck, of Scotland), who was born Sept. 18, 1841. Their children: Henry J. b. Oct. 13, 1858; Mary Jane b. Nov. 26, 1861; Sarah E. b. July 25, 1863; Annie b. Nov. 7, 1864, m. George Jensen; Emma A. b. Nov. 17, 1866, m. Edgar Burk; Joseph S. b. July 25, 1867; Jeanette b. July 25, 1868; Lillian b. Sept. 21, 1870, m. Charles Averette; William F. b. April 28, 1872; John L. b. Sept. 1, 1873; William A. b. Aug. 8, 1874; Albert T. b. Sept. 26, 1875, m. Sarah E. Houskeeper; Alford Charles b. Sept. 29, 1878, m. Julia Young; Laura M. b. June 20, 1881, m. Eli Kirkham.
Elder. Cabinet maker and carpenter.

←
a relative

*Pioneers and
from prominent men of Utah*

For Jack: Nonsense carefully & compounded but not a felony.

Jack Reveal was noted for his zeal
He did ~~so~~ carefully, listened to what the flower said
As it eventide it went so mournfully to bed
Dropping its petals over its pink and yellow "he-she" head.
Oh zephyr breeze, oh morning dew
What am I a she or he
And worse of all, I say to me
Shall I awake at ^{day} 1 for that busy bee.
To do its job on poor little me.

T.A.

Composed by the artist + student of Marine (9:30 AM)
"Tony" Anthony D'Attilio - S.D. Nat. History Museum (9-15-75) invertebrates,

Jack Reveal
Jack Be Real
Jack jump over
The ferris wheel

The ferris wheel turns round
with swinging cages

Filled with children
and mindless sages

Ypt how did Jack did get
ever so near

Did he but have
just one good beer.

Tony: on this sunny day
of the year of our lord
August, 1975

So now be still you boy and maid
and listen well to Jack Reveal
He speaks with tongue much full of zeal
and feeds he well on blooms
that never fade.

FOR JACK
Nonsense Carefully Composed But Not a Felony

By

Anthony "Tony" D'Attilio
Artist and Student of Marine Invertebrates
San Diego Natural History Museum

.....

Jack Reveal was noted for his zeal -
He did so carefully listen to what the flower said.
As it retired and went so mournfully to bed -
Drawing its petals over its pink and yellow
"he -she" head.

Oh zephr breeze, Oh morning dew,
What am I - a she or he?
And worst of all, I say to me
Shall I awake at dawn for that hairy bee
To do its job on poor little me?

A.D'A 9:30 AM. September 15, 1975.

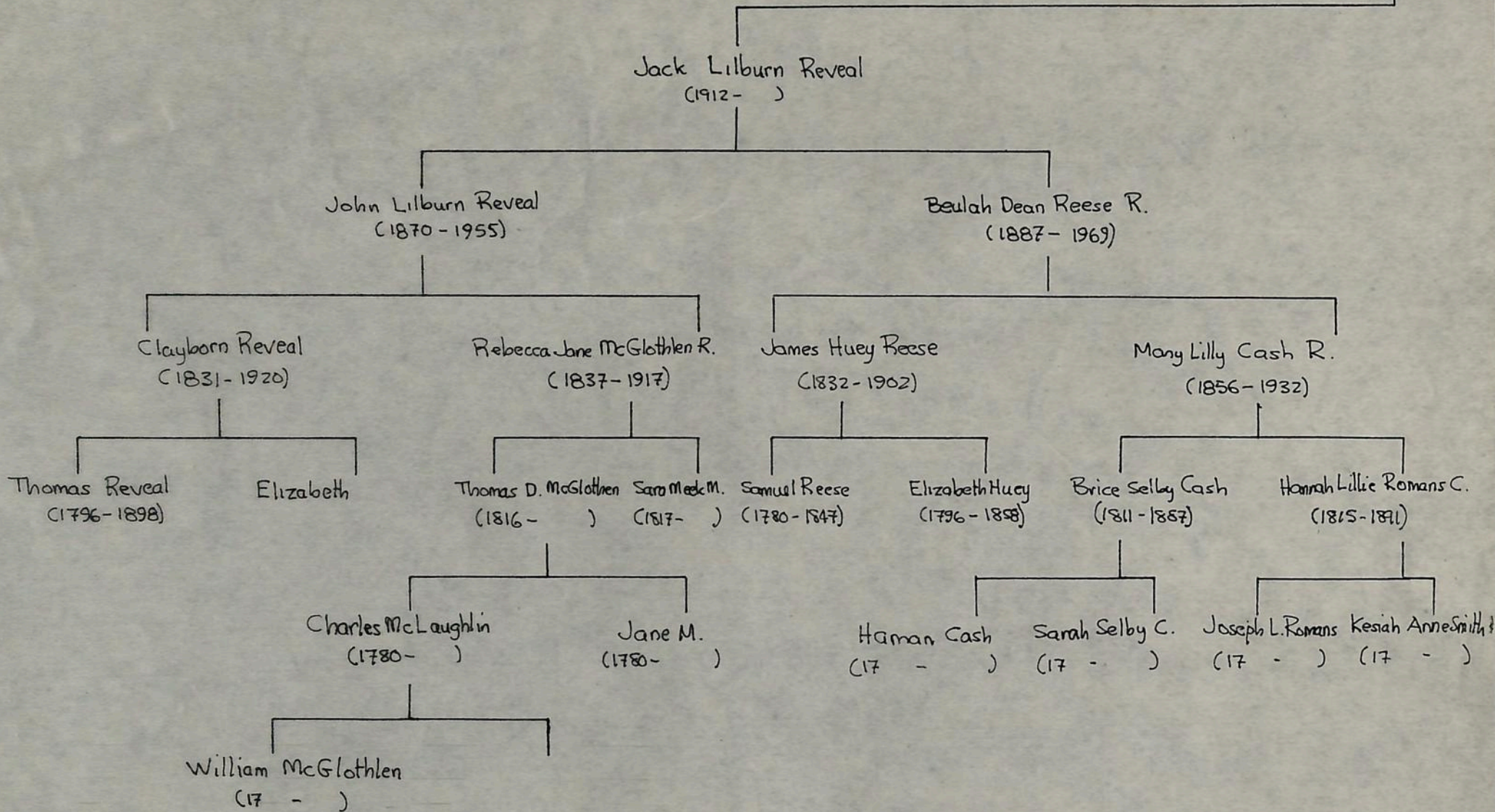
Jack Reveal
Jack Be Real
Jack jump over
The ferris wheel.

The ferris wheel turns round
with swinging cages
Filled with children
and mindless sages.
Yet how did Jack get
ever so near?
Did he but have
but one good beer?

So now be still, you boy and maid,
And listen well to Jack Reveal.
He speaks with tongue
much full of zeal
And feeds he well on blooms
that never fade.

Tony - on this sunny day of Our Lord, August, 1975.

Jan Lauritz Revea
(1941-)



Green
Western Am. 3rd Haver
proprietary

Mark Plw coop -
Wendy.

Lent to Museum
Jan 1985

mono Co: Colt Pistol & Green River knives

Green River: Hand made steaming knives & steel

Jim: Blanket, hair rope, spurs.



YELLOWSTONE
LIBRARY AND MUSEUM ASSOCIATION

Yellowstone National Park, Wyoming
82190

February 7, 1978

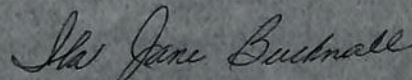
Jack L. Reveal
3843 Ingraham, Apt. F-309
San Diego, CA 92109

Dear Mr. Reveal:

The copy of the War Department's REPORT OF A RECONNAISSANCE FROM CARROLL, MONTANA TERRITORY, ON THE UPPER MISSOURI, TO THE YELLOWSTONE NATIONAL PARK, AND RETURN, MADE IN THE SUMMER OF 1875, by William Ludlow, which you sent arrived here today in excellent shape. It will be placed in our Library collection immediately.

Again we thank you for thinking of us for this donation. We certainly appreciate it.

Sincerely,



(Mrs.) Ila Jane Bucknall
Librarian



YELLOWSTONE
LIBRARY AND MUSEUM ASSOCIATION

82190

January 25, 1978

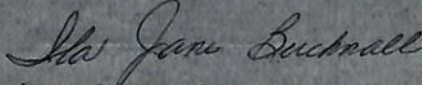
Jack L. Reveal
3843 Ingraham, Apt. F-309
San Diego, CA 92109

Dear Sir:

We would be happy to accept the donation of the copy of the War Department's REPORT OF A RECONNAISSANCE FROM CARROLL, MONTANA TERRITORY, ON THE UPPER MISSOURI, TO THE YELLOWSTONE NATIONAL PARK, AND RETURN, MADE IN THE SUMMER OF 1875, by William Ludlow, as per your letter of January 15, 1978. It has been through interested persons such as yourself that many of the items in our collection have been obtained.

We will be looking forward to receiving the book. Thank you for thinking of us.

Sincerely,



(Mrs.) Ila Jane Bucknall
Librarian

3843 Ingraham Apr F-309
San Diego CA 92109
3 January 1979

Mrs. Ila Jane Bucknall, Librarian
Yellowstone Library & Museum Assoc.
Yellowstone National Park, Wyoming

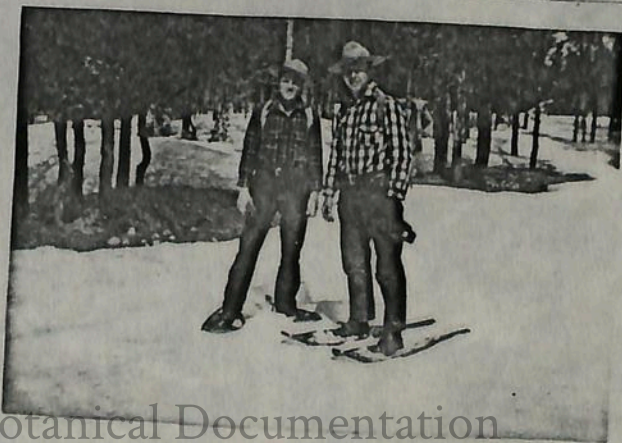
Dear Mrs. Bucknall:

I thought the museum might like to have the enclosed photo of two more recent old-timers. It is of park rangers Scott Chapman (left) and Donald Kipp of the Bechler River station, and was made about 2 March 1933, on the road between that station and the Reiman ranch where mail was left for them. About a week before I'd met them at the Purdy Cabin on Loon Lake and had come on out with them. We had had an open winter, and rains had cut the snow to patches, making travel difficult.

May I belatedly thank you for your letter of 28 February 1978 in which you gave me an estimated value for the Ludlow volume. And - incidently - I did find at long last my great uncle's place near Gardiner. I discovered its location on a map in the report of the Sheridan expedition to Yellowstone - 1883 - and I visited the site this past summer.

Sincerely yours,
Jack L. Reveal
Jack L. Reveal

PHOTO INSIDE →



Survey 1884: 85
Rev. 1910

Loon Lake →
x Site of old class
Purdy cabin

Squirrel
Adams
Squirrel CA
N. Elk Range CA
Cabin CA
Vadness CA
Vadness CA
Vadness CA

44° 00' 00"

50'

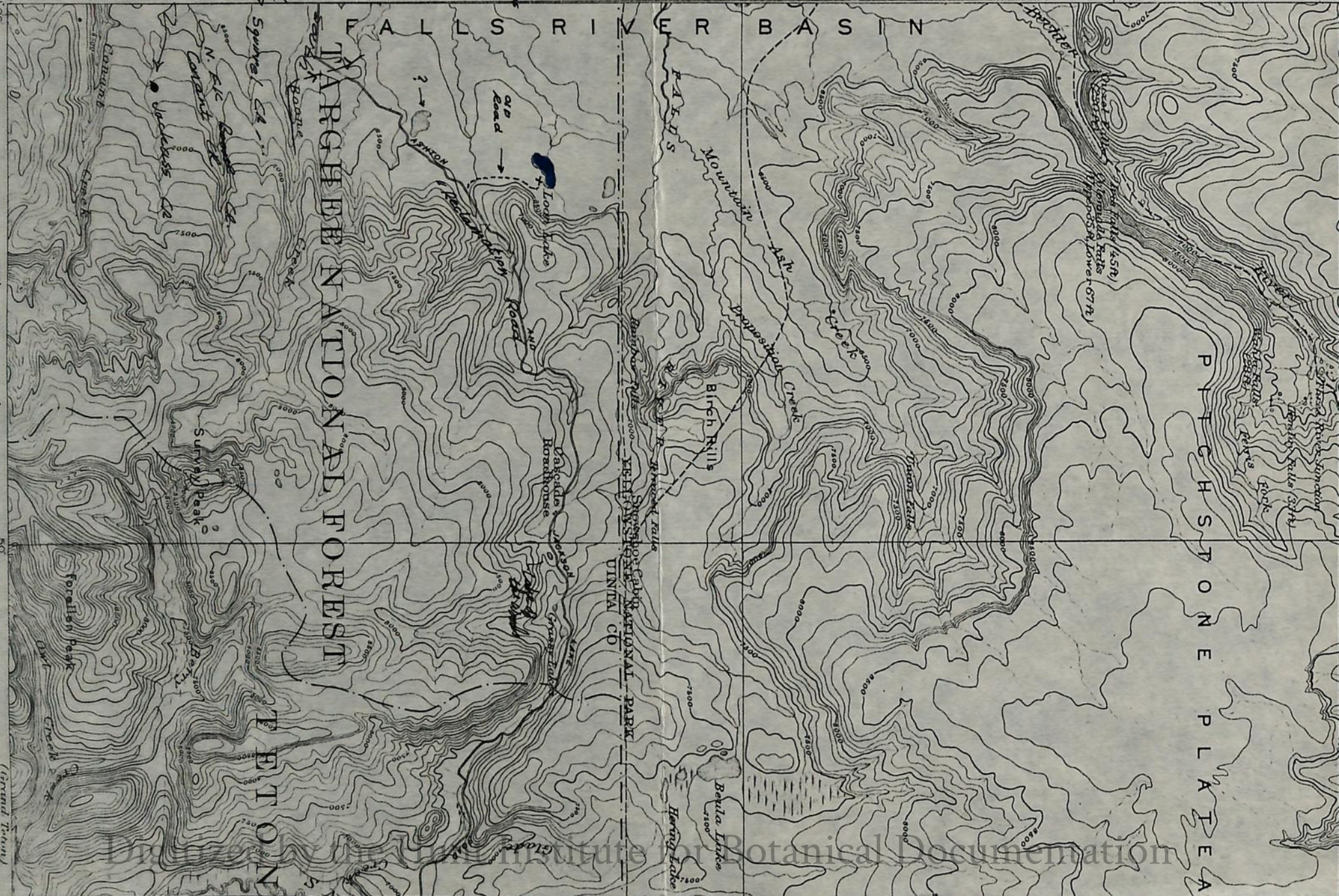
(Grand Teton)

Henry Garnett, Chief Geographer
John H. R. Hilliker, District Geographer

Shoshone, Wyo

1911 - 1927 ED.

St. Albans, Vt.



In 1935 (July-Aug - +1 wk S.E.) - 4 guys
I build a phone line & trail from Mitchell
Place to Mahoney Peak & a trail north.

Billy
Mitchell Place
on Marble Cr.

→ Mahoney
Mtn

Ranch → 2
to
hot springs.

Castro Idaho
1:125000
Ed. of 1930





The Village Walk

*Written & drawn by
Jack Revel - revised
(here) ca. 1981*



MISSION BAY
SAN DIEGO CALIFORNIA

We invite you to enjoy the Village Walk. Listed below are the plants you will find at the numbered locations shown on the map. The letter following the common name tells you to look for a tree (T), a shrub (S), or a herbaceous plant (H). The asterisk (*) refers to the notes on the last page.

	<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>FAMILY</u>	<u>PLACE OF ORIGIN</u>
* 1.	Desert Gum (T)	<u>Eucalyptus rudis</u>	Myrtle	Australia
2.	She-Oak (T)	<u>Casuarina stricta</u>	Casuarina	Australia
3.	Sweet Broom (S)	<u>Cytisus canariensis</u>	Pea	Canary Islands
* 4.	Japanese Black Pine (T)	<u>Pinus thunbergi</u>	Pine	Japan
5.	Cotoneaster (S)	<u>Cotoneaster</u>	Rose	Old World
6.	Texas Privet (S)	<u>Ligustrum japonicum</u>	Olive	Japan
7.	India Rubber Tree (T)	<u>Ficus elastica</u>	Mulberry	S.W. Asia, E. Indies
8.	Tree Fern (T)	<u>Alsophila cooperi</u>	Dicksonia	Australia
9.	Octopus Tree (T) (Umbrella Tree)	<u>Schefflera (Brassia)</u> <u>Actinophylla</u>	Ginseng	New Zealand
10.	Hibiscus (S)	<u>Hibiscus species</u>	Mallow	Orient
11.	Victorian Box (T)	<u>Pittosporum undulatum</u>	Pittosporum	Australia
12.	Black Willow (T)	<u>Salix goodingii</u>	Willow	S.W. America
13.	Monterey Pine (T)	<u>Pinus radiata</u>	Pine	California
14.	Canary Island Pine (T)	<u>Pinus canariensis</u>	Pine	Canary Islands
15.	Spined Rush (H)	<u>Juncus acutus</u>	Rush	Local
16.	Giant Bird of Paradise (H)	<u>Strelitzia nicolai</u>	Banana	So. Africa
17.	Showy Bottle-Brush (T)	<u>Callistemon speciosus</u>	Myrtle	Australia
18.	Cape Honeysuckle (S)	<u>Tecoma elata</u>	Honeysuckle	Tropical America
19.	Natal Plum (S)	<u>Carisa grandifolia</u>	Dogbane	S. Africa
20.	Umbrella Plant (H)	<u>Cyperus alternifolius</u>	Sedge	Africa
21.	Firethorn (S)	<u>Pyracantha</u>	Rose	Europe, Asia

*22.	Papyrus (H)	<u>Cyperus papyrus</u>	Sedge	S. E. Europe, Africa, Syria
*23.	Purple-leaf Plum (Hollywood Plum) (T)	<u>Prunus cerasifera</u>	Rose	S. E. Asia
24.	Indian-leaf Fig (T)	<u>Ficus retusa</u>	Mulberry	India
25.	Norfolk Island Pine (T)	<u>Araucaria excelsa</u>	Araucaria	Australia
26.	Asparagas Fern (S)/ (H)	<u>Asparagas sprengeri</u>	Lily	Siberia to So. Africa
27.	Rose-acacia (T)	<u>Robinia hispida macrophylla</u>	Pea	S. E. /North America
28.	Leyland Cypress (T)	<u>Cypressocyparis leylandi</u>	Cypress	Hybrid tree
29.	Aleppo Pine (T)	<u>Pinus halepensis</u>	Pine	Mediterranean
*30.	Water Wattle (T)	<u>Acacia retinodes</u>	Pea	Australia
31.	Heath Melaleuca (S)	<u>Melaleuca ericifolia</u>	Myrtle	Australia
32.	Coral Tree (T)	<u>Erythrina corallo-dendron</u>	Pea	Tropical America
33.	Toyon (Christmas Berry) (S)	<u>Heteromeles arbutifolia</u>	Rose	California
34.	Fern Pine (T)	<u>Podocarpus gracilior</u>	Yew	So. Africa
35.	India Hawthorn (S)	<u>Raphiolepis Umbellata</u>	Rose	Orient
36.	Tobira (S)	<u>Pittosporum tobira</u> (green & varigated forms)	• Pittosporum	Australia, New Zealand
*37.	Kafir Plum (T)	<u>Harephyllum caffrum</u>	Rose	So. Africa
*38.	New Zealand Tea Tree (T)	<u>Leptospermum scoparium</u>	Myrtle	New Zealand
39.	Weeping Fig (T) (Chinese Banyan)	<u>Ficus benjamina</u>	Mulberry	India
40.	Hollywood Juniper (T)	<u>Juniperus chinensis</u> <u>"tortulosa"</u>	Pine	Hybrid
41.	Dragon Tree (T)	<u>Dracena draco</u>	Lily	Canary Islands
42.	Jade Plant (S) (Partly hidden in the Jade Plant is another succulent:	<u>Crassula argenta</u>	Stonecrop	So. Africa
43.	Speckboom (S)	<u>Portulacaria afra</u>	Portulaca	Africa
44.	Camphor Tree (T)	<u>Cinnamomum camphora</u>	Laurel	Orient

45.	Black Birch (T)	<u>Betula nigra</u>	Birch	E. No. America
46.	Lantana (S)	<u>Lantana</u>	Vervain	Tropical America
47.	Deodar Cedar (T)	<u>Cedrus deodara</u>	Pine	Himalayas
48.	Stone Pine (T)	<u>Pinus pinea</u>	Pine	Mediterranean
49.	Goldenrain (T)	<u>Koelreuteria paniculata</u>	Soapberry	Orient
50.	Cajeput Tree (T) (Paperbark Tree)	<u>Melaleuca leucodendron</u>	Myrtle	Australia
51.	Cedar (T)	<u>Chamaecyparis</u>	Pine	N. America & Japan
52.	Dracaena (H)	<u>Cordyline (Dracaena)</u>	Lily	New Zealand
53.	Mexican Fan Palm (T)	<u>Washingtonia gracilis</u>	Palm	Baja California
54.	Canary Island Date Palm (T)	<u>Phoenix canariensis</u>	Palm	Canary Islands

NOTES

- 1 ~~Skyline trees in coastal California are often Eucalyptus.~~
- 4 Japanese Black Pine is often used in bonsai culture.
- 22 The paper plant of the Egyptians.
- 23 Also note Cape Honeysuckle #18 at this corner.
- 28 Between #28 and #29, the plant resembling a giant grass is New Zealand Flax - Photium tenax - a member of the Lily family.
- 30 Ahead on Pine Hill, ground cover plants are Periwinkle (Vinca) and Ivy (Hedra). Elsewhere you will find the yellow daisy Cape Weed (Arctotheca calendula), Daylilies (Hemerocallis), Lily of the Nile, Fuschia, and Iris. The brightly colored beds along walks and parkways are Ivy Geraniums.
- 37 The ripe fruit of Kafir Plum is edible, but mostly stone.
- 38 To combat scurvy, Captain Cook is said to have brewed tea using the leaves of this New Zealand plant.

Perhaps you noticed:

- the Korean Velvet Grass (Zoysia tenuifolia) forming a hummocked turf near the Registration Building and around our VV initials.
- the large Staghorn Fern (Platycerium) hanging above the front entrance to the Registration Building.

CHRYSOTHAMNUS BOLANDERI, AN INTERGENERIC
HYBRID

LORAN C. ANDERSON AND JACK L. REVEAL

The genus *Chrysothamnus* (Astereae, Compositae) is closely related to *Haplopappus*, and, particularly, *C. bolanderi* (Gray) Greene has been noted for its similarity to *H. macronema* Gray (section *Macronema*). Gray (1873) and Greene (1895) both suggested *C. bolanderi* could easily be placed in the other genus, and later Greene (1904) did so as *Macronema bolanderi*. This close resemblance to a species of *Haplopappus* makes the identification of *C. bolanderi* essential to an understanding of the systematics and evolution of *Chrysothamnus*. This plant has been, unfortunately, rarely collected. In addition to the earlier collections: *Bolander 6137* in 1866 (GH—holotype, UC!, US!) and *Rattan s. n.* in 1867 (DS!, mixed, *H. macronema* in part), it is now represented by *Reveal 1057* (KSC) and *Anderson & Fish 2923* and *2926* (KSC).

Bolander's type collection is labeled: "At Mono Pass, California, elevation 9000–10000 ft." The only plants we found after extensive independent search (Reveal in 1964, Anderson in 1965) were located east of Mono Pass (elevation 10604 ft.) in Bloody Canyon where they were restricted to a small oasis surrounded by barren rock. A small population was found at 10000 ft. on a steep talus-filled crevasse which rises abruptly from the northwest edge of Lower Sardine Lake (ca. 8 air miles southwest of Lee Vining). A few more plants were found in talus along the trail just below the lake at 9800 ft. A total of 25–50 plants, then, represents the extent of *C. bolanderi*.

Hall (Hall and Clements, 1923) described this taxon as a relict subspecies derived from *C. parryi* (Gray) Greene ssp. *parryi*. However, recent studies (Sharp and Birman, 1963) show that five advances of upper Pleistocene glaciation can be recognized in Bloody Canyon; these are Tioga, Tenaya, and Tahoe (of the Wisconsin), Mono Basin (Illinoian?), and Sherwin (Kansan?). This history of recent repeated glaciation does not support the designation of *C. bolanderi* as a relict. An alternative, as indicated by the extremely limited range and the fact that the plants are growing in very close association with *C. nauseosus* (Pallas) Britt. ssp. *albicaulis* (Nutt.) Hall & Clem. and *H. macronema*, is that it is of recent hybrid origin.

To elucidate the relationship of *C. bolanderi*, comparative studies on gross morphology, cytology, and anatomy were undertaken. Since *C. nauseosus* and *H. macronema* both vary considerably throughout their ranges, only collections associated with *C. bolanderi* are dealt with here. Data collected for *C. parryi* ssp. *monocephalus* (Nels. & Kenn.) Hall & Clem. and *H. suffruticosus* (Nutt.) Gray, also found in Bloody Canyon, indicate they are not related to the problem.

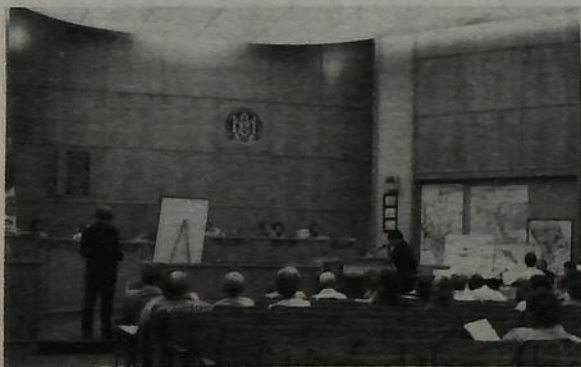
MADROÑO, Vol. 18, No. 8, pp. 225–256. December 2, 1966.

PROJECT MANAGEMENT

At RECON your project will be assigned to a Project Manager, who will ensure a personal, time-sensitive response to your environmental needs. Our project management integrates a variety of disciplines to determine project impacts. Through our preparation of over 800 environmental and technical documents, we have consistently maintained a pivotal role in processing, coordinating and managing projects. For instance, RECON has served as jurisdiction staff responsible for all noticing and processing, i.e. notice of preparation, response to comments, findings, notice of completion, distribution and staff reports. We are, therefore, familiar with all aspects of environmental documentation and legal procedures.

Our experience with local, state and federal environmental regulations and documentation combines environmental scientific knowledge with management skills to obtain results. Furthermore, we maintain explicit control over scheduling, quality and cost, through computerized management systems. In conducting studies for projects governed by NEPA, CEQA, and other regulations, RECON prepares the following documents:

- Environmental Impact Reports (EIR)
- Initial Studies (IS)
- Environmental Impact Statements (EIS)
- Environmental Assessments (EA)
- Resource Inventories and Assessments
- Technical Studies
- National Historic Preservation Act
Section 106 Reports
- California Fish and Game Section 1603
Applications
- Army Corps 404 Permit Applications
- California Coastal Development Permits
- Development Feasibility Studies



PARTIAL LIST OF RECON CLIENTS

PUBLIC SECTOR

Bureau of Land Management, Department of the Interior
City of Carlsbad
City of Chula Vista
City of Coronado
City of National City
City of Oceanside
City of San Diego
County of San Diego
Metropolitan Transit Development Board
San Diego Association of Governments
San Marcos County Water District
Sweetwater Authority
United States Air Force
United States Army
United States Marine Corps
United States Navy
University of California, San Diego
U.S. Forest Service, Department of Agriculture

PRIVATE SECTOR

Chevron Land Development Company
DAON Southwest
E.F. Cook & Associates
Ernest Hahn, Inc.
Genstar Development Inc.
Huntington Beach Company
John D. Lusk & Son
La Costa Land Company
McKellar Development Company
Oak Industries
Pardee/Weyerhaeuser
Rick Engineering
San Diego Gas & Electric
Shell Oil
Standard Oil
Thousand Trails, Inc.
VTN
Watt Industries
Wimmer Yamada

RECON
1094 Cudahy Place, Suite 204
San Diego, California 92110
(619) 275-3732

RECON

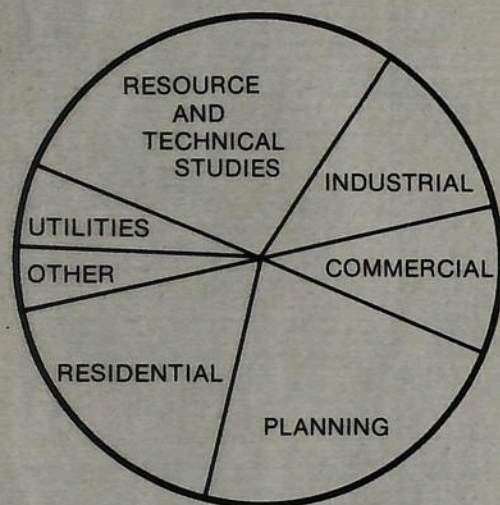
Regional Environmental Consultants



RECON

RECON is a scientific environmental firm which has been providing service to the public and private sectors since 1974. RECON's experience includes environmental analysis and processing of:

- Planned Communities
- Wastewater Treatment Facilities
- Sand and Gravel Operations
- Industrial Parks
- Residential Developments
- Commercial Centers
- EHV Electrical Facilities
- Gas and Sewer Lines
- General Plan Amendments
- Military Operations
- Recreation Plans and Facilities
- Resource Inventory and Assessments



STAFF EXPERTISE

- Planning
- Botany
- Zoology
- Ecology
- Sociology
- Geology
- Agriculture
- Paleontology
- Air Quality
- Water Quality
- Noise Analysis
- Traffic Circulation
- Community Services
- Visual Resources
- Cultural Resources

Our staff capabilities are supplemented when necessary by consultants specially selected for their regional experience and technical abilities.

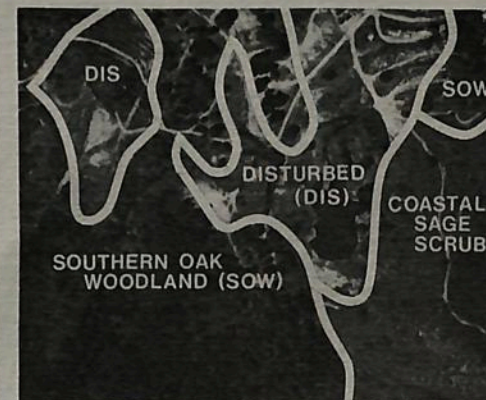
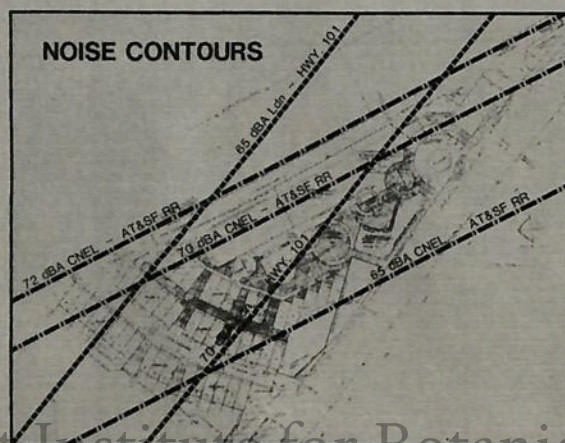


CULTURAL RESOURCES

- Archaeology Surveys and Excavations
- History
- Historic Architecture
- Paleontology

RECON has performed surveys on over 75,000 acres and archaeological tests and excavations on over 300 sites. As the principal subcontractor to the Army Corps we conducted a major phase of the multi-million-dollar New Melones Dam mitigation program in central California. For the San Diego Association of Governments we completed a historic overview of San Diego County.

RECON holds a federal antiquity permit for southern and central California as well as the state of Nevada. All of RECON's staff archaeologists are registered with the Society of Professional Archaeologists (SOPA), a requirement in many jurisdictions.



BIOLOGICAL RESOURCES

In addition to preparing the biological technical reports for most environmental documents, RECON conducts:

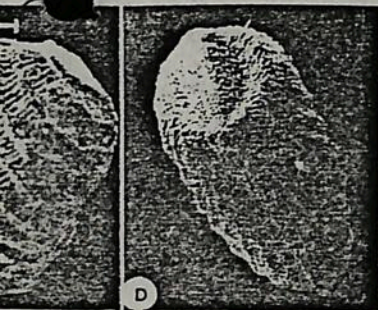
- Biological Surveys
- Remote Sensing Analyses
- Sample Trapping
- Behavioral Studies
- Directed Searches for Rare and Endangered Species

Having completed over 700 biological surveys, RECON has developed mitigation strategies which balance resource conservation and land use goals. RECON conducted an analysis of urbanization effects on the Paradise Marsh in National City and developed a watershed management program as part of that city's Local Coastal Program. Regional-scale biological resource inventories have been prepared for the U.S. Forest Service and the Marine Corps.

TECHNICAL SPECIALTIES

- Environmental Noise Analysis
- Air Emissions Modeling
- Water Pollutant Concentration Analysis

RECON has conducted analysis of noise generators, such as traffic, railroad and airport operations; carbon monoxide concentrations and distribution; and effects of acid rainfall. Computer modeling, including point and line source models for pollutant distribution, as well as iterative modeling techniques, is used.



grains of *Eleusine tristachya* (A and C) 1 mm long. Bar in C (for C and D) is 0.5 mm long.

OR. The only New World taxon of a genus because not included in Phillips's survey (Kew Bull. 27:251-270. 1972). (Herbaria consulted: Kew, Austral. grasses. 1. 1966; Hitchcock and Cronquist, Fl. Pac. Northw. 1973). *Eleusine tristachya* is native to tropical Africa and Asia. Phillips (op. cit.), however, indicated it as a rare adventive. The presence of wild relatives and their absence from Africa is indicative of a New World origin. *Diagnostic characters.* Infl. of 2-3 terminal spikelets, glumes oblong or occasionally oblanceolate, lower glume (Fig. 1A). Spikelets 5-9(-11) flowered, perpendicular to it; lower glume 3.0-3.5 mm long; lemma 3.0-5.1 mm long. Seed broadly oblong (Fig. 1C); pericarp membranous.

Occurrence of the species in CA and South America, Central America or Mexico but it has not been reported from *E. indica*. The latter is readily distinguished by 10(-17) terminal and subterminal spikelets; spikelets less compact and obliquely oriented; lemma 1.1-2.3 mm long; upper glume 1.8-2.9 mm long; ovate in outline, 1.0-1.3 mm long. *Cynosurus tristachyus* Lam. (Lamarck, 1805) was also based on *C. tristachyus* Lam. (Lamarck, 1805) and is therefore invalid. (Received 14 Apr 1980; accepted 15 Apr 1980; final version received 24 Apr 1980.) University of Illinois, Urbana 61801. Revision accepted 26 Dec 1979; final

(IRIDACEAE).—USA, ID, Bonner Co., Kingsgate on hwy 95 (T65N R2E S29 E30) (ID). Abundant. Population coverages adjacent to Douglas-fir forest, 810 m. *Diagnostic characters.* Flowering spikelets, and *Festuca pratensis*. Flow- (Received 14 Apr 1980; accepted 15 Apr 1980; final version received 24 Apr 1980.)

Previous knowledge. Known in Rocky Mt. states and Canada e. of Continental Divide (w. of Divide only in Powell Co., MT). (Herbaria consulted: CAN, ID, MO, NY, UC, UTC, WIS, WS, WTU; published sources: Henderson, Brittonia 28:149. 1976.) Prior to Henderson's study this taxon was little understood and consequently was not recognized by Hitchcock et al. (Vasc. pls. Pac. Northw. 1. 1969), Hitchcock and Cronquist (Fl. Pac. Northw. 1973); nor Mosquin (Madroño 20:269. 1970). *Diagnostic characters.* Tepals with retuse to emarginate and aristulate apex, oblanceolate to elliptic; outer bract at least twice the length of the inner; densely caespitose.

Significance. First report for ID, a range extension of 800 km w. from Continental Divide.—ANITA F. CHOLEWA, Department of Biological Sciences, University of Idaho, Moscow 83843. (Received 14 Apr 1980; accepted 15 Apr 1980; final version received 24 Apr 1980.)



ORYZOPSIS SWALLENII Hitchc. & Spellenberg (POACEAE).—USA, WY, Sublette Co., dry plains bordering Cottonwood Cr. along e. side of hwy 189, 25 km n. of Big Piney, 2100 m, 18 Jul 1977, *Reveal 2079*, SD, UTC. Identified by A. H. Holmgren, UTC, 1979.

Previous knowledge. Known only from c. ID in se. Lemhi, w. Clark, and se. Custer cos. (Herbaria consulted: SD, UTC; published sources: Hitchcock and Spellenberg, Brittonia 20:162-165. 1968; Hitchcock, Univ. Wash. Publ. Biol. 17(1):629-635. 1969; Holmgren and Holmgren, Intermt. fl. 1:354. 1977). *Diagnostic characters.* Keys to *Oryzopsis* with some difficulty in Dorn (Man. vasc. pl. Wyo. 1977, p. 763-766), tending to be similar to *Stipa* as well. Will key nearest to *O. hymenoides* (Roem. & Schult.) Ricker ex Piper and *O. contracta* (Johnson) Shechter, but has caespitose culms to 4 dm tall; leaf blades 0.5 mm wide; glumes 5-6 mm long; lemma about 1.5 mm long, long-pilose, the awn 5-6 mm long.

Significance. First record for WY, a se. range extension of 250 km.—JACK L. REVEAL, San Diego Museum of Natural History, San Diego, CA 92112. (Received 9 Jun 1980; accepted 10 Jun 1980.)

CAMPANULA SCABRELLA Engelmann (CAMPANULACEAE).—USA, CA: Shasta Co., Lassen Volcanic National Park: Ski Heil Peak, T30N R4E S10 nw.¼, 100 m e. of summit, locally common in a 30 × 60-m population on s. slope of volcanic scree, 2660 m, 21 Jul 1979, *Heckard 5146* (JEPS) [plants first discovered on same peak, 26 Jul 1975 (T. and S. Harris s.n., CAS) and independently by Dale E. Johnson and students in 1976]; summit of Loomis Peak, alpine fell-fields, 1 Aug 1978, *Showers 4218* (CAS); Siskiyou Co., Scott Mts.: n. side China Mt. 41°22'40.1"N, 122°34'28.2"W, 2604 m, on granodiorite, 3 Aug 1978, *Muth 7403* (PUA); e. ridge S. China Mt., 41°21'35"N, 122°34'58.1"W, 2438 m, on serpentine, 2 Aug 1978, *Muth 6762* (PUA); Cory Peak, on serpentine: w. ridge, 41°19'45"N, 122°36'30.1"W, 2219 m, 1 Aug 1978, *Muth 6901* (PUA); n. side, 41°19'59.3"N, 122°36'13.9"W, 1 Aug 1978, *Muth 6957* (HSU).

Previous knowledge. Cascade Mts. of c. WA and the Rocky Mts. of ID and MT, rare in OR and CA where its distribution as given in the literature is poorly documented and apparently erroneous. The species occurs in the Wallowa Mts. of OR (Mason, Guide pls. Wallowa Mts. ne. Oreg. 1975) but no specimens have been found to document its occurrence on the high peaks of the Cascade Mts. of either OR or CA as given by Peck (Man. higher pls. Ore. 1961) and Abrams and Ferris (Illust. fl. Pac. States. 1960) nor have any been re-collected on Scott Mt., which Engelmann cited as the type locality. In CA the species was known heretofore only on Mt. Eddy. (Herbaria consulted: CAS, DS, GH, HSU, JEPS, NY, ORE, OSC, POM, PUA, RSA, SOC, UTW, WTU, UC, US; other published sources: Shetler, Rhodora 65:319-337. 1963).

Madroño OCT. 1980
Vol 27 #4

JACK L REVEAL
11419 Tampa Ave. #128
Northridge, California 91326

Telephone (818) 368-3297

SUMMARY OF PROFESSIONAL SKILLS & ACCOMPLISHMENTS (1938 - 1974)

Vegetation Surveys:

- ...Prepared maps of vegetation types and plant communities, using aerial photographs and topographic maps.
- ...Investigated species composition, including occurrence of rare, threatened and special interest plants.
- ...Determined and documented plant density and volume.
- ...Conducted ecological studies and wrote reports concerning plant species, including management recommendations.
- ...Collected about 2000 plant specimens; started a herbarium for a national forest ranger district.

Archaeological Surveys:

- ...Conducted broad reconnaissance surveys to locate sites and cultural remains.
- ...Prepared site reports for museums, State of California, U. S. Forest Service and for individual archaeologists.

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- ...Investigated forest conditions affecting management; determined and instituted forest management programs.
- ...Estimated volume of standing forest and woodland trees and made management recommendations. Marked trees for harvest.
- ...Wrote and conducted information and education programs for the care, protection and use of forests.

Range Conservation and Management:

- ...Evaluated range problems and recommended means to provide sustained production of forage for domestic livestock and wildlife. Installed range study transects.
- ...Planned and directed construction and maintenance of range improvements, such as water developments, fences and soil erosion measures. Inspected range allotments with stockmen.
- ...Developed and instituted plans for range reseeding.
- ...Studied plants and growth requirements to determine species best suited to particular areas.

Special Awards:

- ...Special Merit Award, USDA, for (1) improvement of fire prevention program, and (2) designing, writing text and installing a self-guided nature trail, the first of its kind on a National Forest in California. (1957) ...

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- ...Certificate of Merit, USDA, for contributions to National Forest archaeology needs and concerns. (1971)
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1939 - 1941: FARM FORESTER. Woodland surveys and management on private, public domain and Indian lands in Nevada and Idaho.

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and maintenance of improvements, minerals management, fire protection, land use planning, insect and disease control, information and education, archaeological and historical sites.

1967 - 1974: FOREST STAFF OFFICER - RESOURCES: Supervision of the forest resources, Cleveland National Forest, with emphasis on timber, grazing, wildlife, minerals, insect and disease control, multiple use plans, soils and hydrology.

SUMMARY OF OTHER EMPLOYMENT (1975 - Present)

ASSISTANT TO THE CURATOR OF THE HERBARIUM (VOLUNTEER): Natural History Museum, San Diego, California. General maintenance of the plant collections; collected plant specimens in areas west of the Rocky Mountains with emphasis on grasses. (1975 - 1980)

CONSULTING BOTANIST (CONTRACTOR): For the Cleveland National Forest, reported on The Autecology and Status of Cuyamaca Cypress. For the Toiyabe National Forest, installed and measured 48 permanent transects for range trend studies. (1977 - 1982)

BOTANIST: RECON, 5620 Friars Road, San Diego, CA, 92111. Vegetation mapping, plant inventories, reports for environmental impact statements; emphasis on rare and endangered plants, sensitive habitats, mitigation measures. (1980 - 1981)

CONSULTING BOTANIST (CONTRACTOR AND PART-TIME EMPLOYEE): RBR & Associates, Inc., 233 A Street, Suite 804, San Diego, CA, 92101. Vegetation mapping, plant inventories, reports; emphasis on rare and endangered plants, sensitive habitats, mitigation measures. (1982 - 1 June, 1987 upon my moving to Northridge, CA.)

EDUCATION

1937: B. S. Forestry, Utah State University, Logan, Utah.

1938: Completed one quarter of graduate work in range management and related subjects. USU, Logan, Utah.

PUBLICATIONS

- Bradshaw, Kenneth E. & Jack L. Reveal. 1943. "Tree Classification for Pinus monophylla and Juniperus utahensis." Jor. of Forestry Vol. 41: 100-104.
- Reveal, Jack L. 1944. "Single-leaf Pinyon and Utah Juniper Woodlands of Western Nevada." Jor. of Forestry Vol. 42: 276-278.

- Reveal, Jack L. & Arnold Wallen. 1948. The Redwood Forest Handbook. State of California, Div. of Forestry: 160 pgs.
- Reveal, Jack L. 1965. "Plant Communities of the Mono Basin." International Association for Quaternary Research (INQUA) VIIth. Congress Guidebook: 104-107.
- Anderson Loran A. & Jack L. Reveal. 1966. "Chrysothamnus bolanderi - An Intergeneric Hybrid." Madrono 18: 225-233.
- Reveal, Jack L. & James L. Reveal. 1985. "The Missing Fremont Cannon - An Ecological Solution?" Madrono 32: 106-117.

PERSONAL DATA

Birthdate: 7 May, 1912. Height: 6'- 1". Weight: 190 lbs.

Health: Good. Latest physical examination: April, 1987.

REFERENCES

Personal and professional references available upon request.

August, 1987

CHRYSOTHAMNUS BOLANDERI, AN INTERGENERIC HYBRID

LORAN C. ANDERSON AND JACK L. REVEAL

The genus *Chrysothamnus* (Astereae, Compositae) is closely related to *Haplopappus*, and, particularly, *C. bolanderi* (Gray) Greene has been noted for its similarity to *H. macronema* Gray (section *Macronema*). Gray (1873) and Greene (1895) both suggested *C. bolanderi* could easily be placed in the other genus, and later Greene (1904) did so as *Macronema bolanderi*. This close resemblance to a species of *Haplopappus* makes the identification of *C. bolanderi* essential to an understanding of the systematics and evolution of *Chrysothamnus*. This plant has been, unfortunately, rarely collected. In addition to the earlier collections: *Bolander 6137* in 1866 (GH—holotype, UC!, US!) and *Rattans n.* in 1867 (DS!, mixed, *H. macronema* in part), it is now represented by *Reveal 1057* (KSC) and *Anderson & Fish 2923* and *2926* (KSC).

Bolander's type collection is labeled: "At Mono Pass, California, elevation 9000–10000 ft." The only plants we found after extensive independent search (Reveal in 1964, Anderson in 1965) were located east of Mono Pass (elevation 10604 ft.) in Bloody Canyon where they were restricted to a small oasis surrounded by barren rock. A small population was found at 10000 ft. on a steep talus-filled crevasse which rises abruptly from the northwest edge of Lower Sardine Lake (ca. 8 air miles southwest of Lee Vining). A few more plants were found in talus along the trail just below the lake at 9800 ft. A total of 25–50 plants, then, represents the extent of *C. bolanderi*.

Hall (Hall and Clements, 1923) described this taxon as a relict subspecies derived from *C. parryi* (Gray) Greene ssp. *parryi*. However, recent studies (Sharp and Birman, 1963) show that five advances of upper Pleistocene glaciation can be recognized in Bloody Canyon; these are Tioga, Tenaya, and Tahoe (of the Wisconsin), Mono Basin (Illinoian?), and Sherwin (Kansan?). This history of recent repeated glaciation does not support the designation of *C. bolanderi* as a relict. An alternative, as indicated by the extremely limited range and the fact that the plants are growing in very close association with *C. nauseosus* (Pallas) Britt. ssp. *albicaulis* (Nutt.) Hall & Clem. and *H. macronema*, is that it is of recent hybrid origin.

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27 AUG 1974



UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

CLEVELAND NATIONAL FOREST
3211 Fifth Avenue
San Diego, CA 92103



6140

August 14, 1974

┌

Jack L. Reveal

└

Dear Jack:

I am pleased to present you with this Special Achievement Award which includes a recognition certificate and a cash award for \$250 (minus deductions).

You earned this award and I join the Regional Forester in commending you on the fine job you have done in the fuel modification program on the Forest. To accomplish this it took coordination, professional expertise, and a lot of individual effort.

Congratulations on a job well done.

Sincerely,

DONALD H. SMITH
Forest Supervisor

STATE OF CALIFORNIA

Board of Forestry



It is hereby certified that

Jack L. Reveal

is a duly registered

PROFESSIONAL FORESTER

License No 1352



CALIFORNIA STATE BOARD OF FORESTRY

By *L. D. Carter*
Chairman

Edward F. Martin
Executive Officer

This 24th day of October 1973

JACK L. REVEAL

Experience in The Great Basin

(1) Lived and worked in the Great Basin from 1930 to 1941, and from 1960 to 1967. Attended college at Pocatello, Idaho, and Logan, Utah.

(2) Worked for U. S. Grazing Service on range surveys in eastern Elko County, Nevada, from April to October, 1938. Helped compile range survey data in Reno, Nevada, 1938 - 1939.

(3) With the U. S. Soil Conservation Service, worked on woodland and range surveys on Indian Lands at the following locations:

- (a) Washoe Indian Reservation (Pine Nut Hills), Lyon Co. Nevada. (1939)
- (b) Pahrnagat Valley, Lincoln Co., Nevada. (1940)
- (c) Duck Valley Indian Reservation, Elko Co., Nevada, and Owyhee Co., Idaho. (1940)
- (d) Te-Moak Indian Reservation, Elko Co., Nevada. (1940)
- (e) Parcels of Indian Lands on the Walker River Indian Reservation, Mineral Co., Nevada. (1941)

(4) With the U. S. Forest Service, Mono Lake District, Inyo National Forest, worked along the western boundary of the Great Basin in Mono Co., California, and Mineral Co., Nevada. Mapped grazing allotments, installed range transects, and made extensive plant collections for the Forest herbarium and for the Intermountain Herbarium, Utah State University, Logan, Utah. (1960 - 1967).

(5) Under contracts with the Toiyabe National Forest, installed and read 48 complex range trend study transects on the Bridgeport Ranger District, Mono County, California, Mineral and Lyon Counties, Nevada. (1979 - 1982)

(6) Between 1938 and the present, traveled and collected plant specimens over much of the Great Basin.

Jack L. Reveal
6983 Camino Pacheco,
San Diego, CA 92111

11 April, 1985

JACK L. REVEAL
6983 Camino Pacheco
San Diego, California 92111

Telephone (619) 278-8753

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SUMMARY OF OTHER EMPLOYMENT (1975 - Present)

ASSISTANT TO THE CURATOR OF THE HERBARIUM (VOLUNTEER): Natural History Museum, San Diego, California. General maintenance of the plant collections; collected plant specimens in areas west of the Rocky Mountains with emphasis on grasses. (1975 - 1980)

CONSULTING BOTANIST (CONTRACTOR): For Cleveland National Forest, reported on The Autecology and Status of Cuyamaca Cypress. For the Toiyabe National Forest, installed and measured 48 permanent transects for range trend studies. (1977 - 1982)

BOTANIST: RECON, 5620 Friars Road, San Diego, CA, 92111. Vegetation mapping, plant inventories, reports for environmental impact statements; emphasis on rare and endangered plants, sensitive habitats, mitigation measures. (1980 - 1981)

CONSULTING BOTANIST (CONTRACTOR): RBR & Associates, Inc., 233 A Street, Suite 904, San Diego, CA, 92101. Vegetation mapping, plant inventories, reports; emphasis on rare and endangered plants, sensitive habitats, mitigation measures. (1982 - present)

EDUCATION

1937: B. S. Forestry, Utah State University, Logan, Utah.

1938: Completed one quarter of graduate work in range management and related subjects. USU, Logan, Utah.

PERSONAL DATA

Birthdate: 7 May, 1912. Height: 6'- 1". Weight: 190 lbs.

Health: Good. Latest physical examination: April, 1985.

REFERENCES

Personal and professional references available upon request.

April, 1985

